

FIG. 1

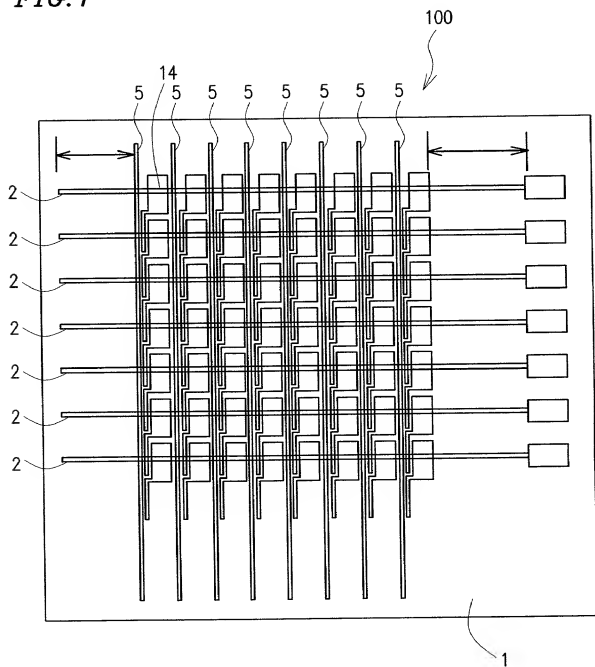


FIG. 2

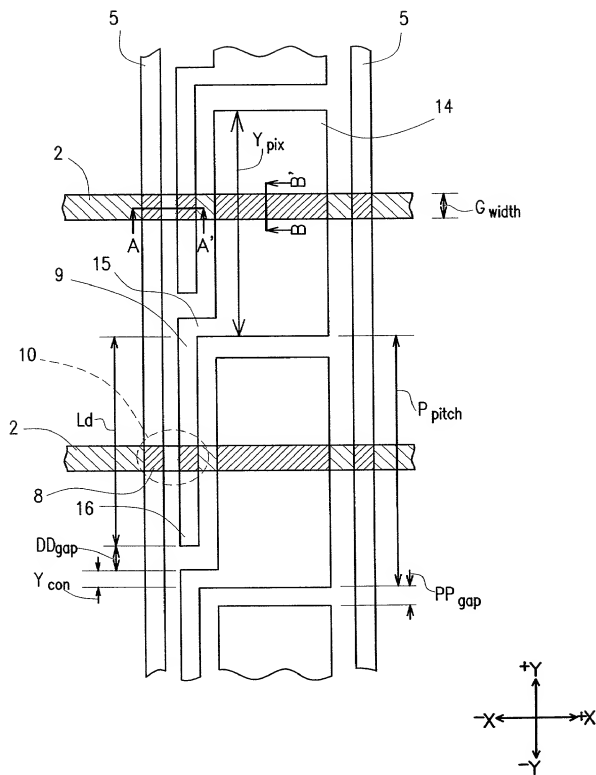


FIG. 4A

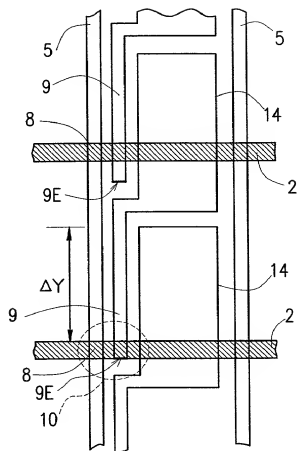


FIG. 4B

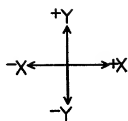
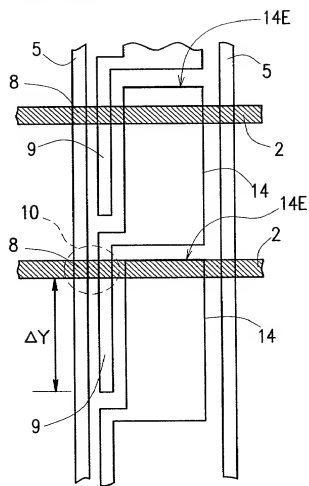


FIG. 5

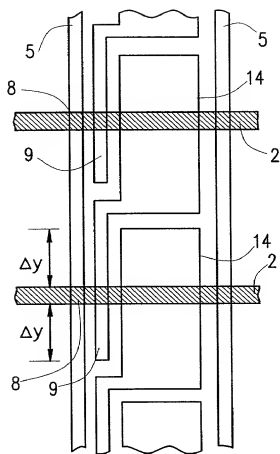


FIG. 6A



FIG. 6B

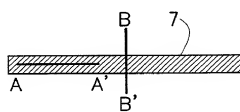
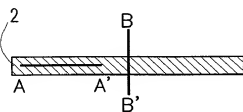
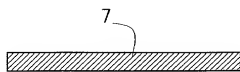


FIG. 6C

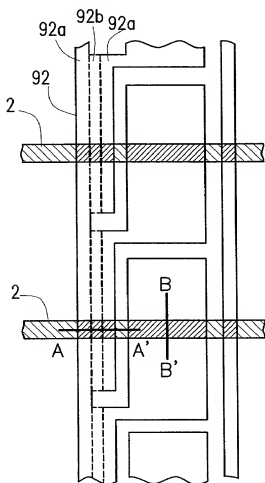


FIG. 6D

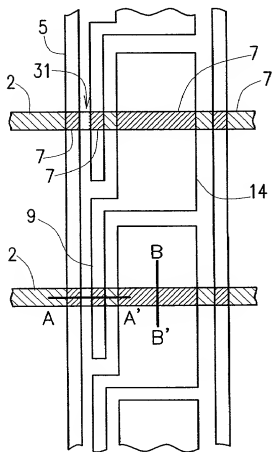


FIG. 7A

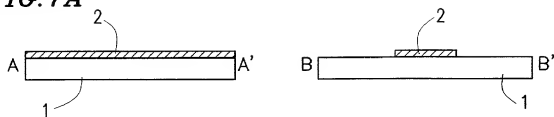


FIG. 7B

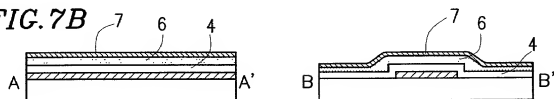


FIG. 7C

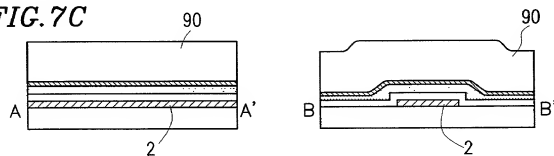


FIG. 7D

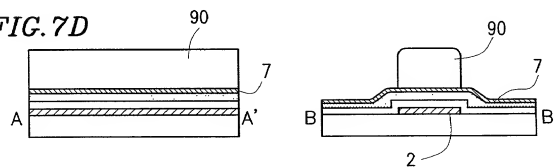


FIG. 7E

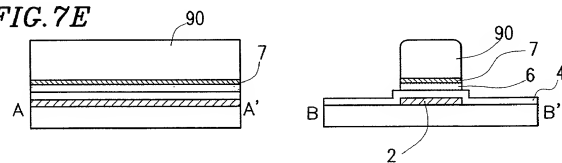


FIG. 7F

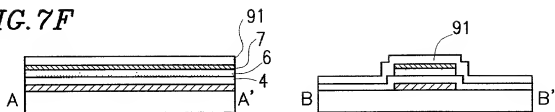


FIG. 7G

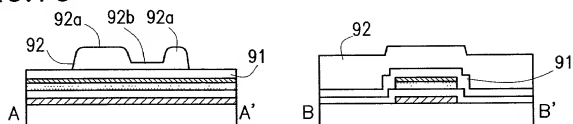


FIG. 7H

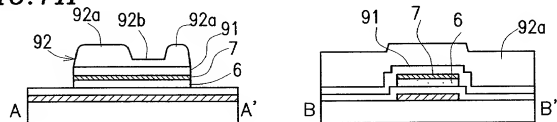


FIG. 7I

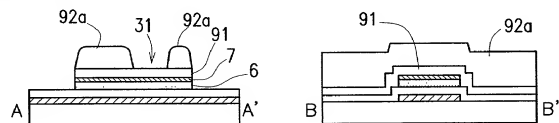


FIG. 7J

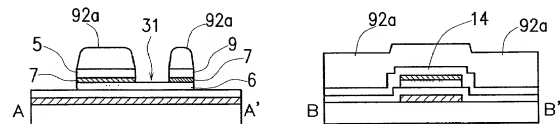


FIG. 7K

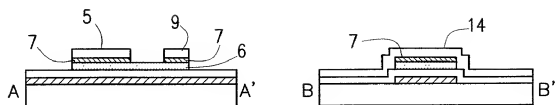


FIG. 7L

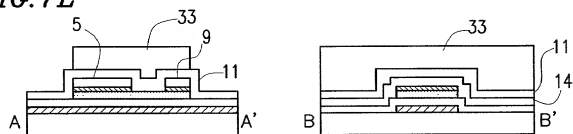


FIG. 8A

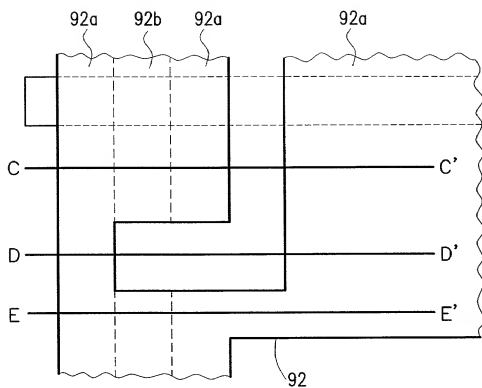


FIG. 8B



FIG. 8C



FIG. 8D

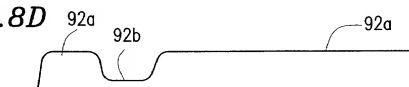


FIG. 9

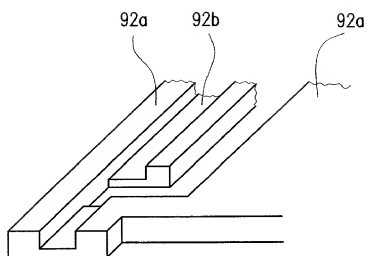


FIG. 10

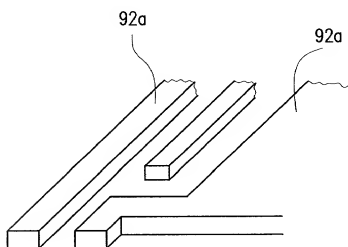


FIG. 11

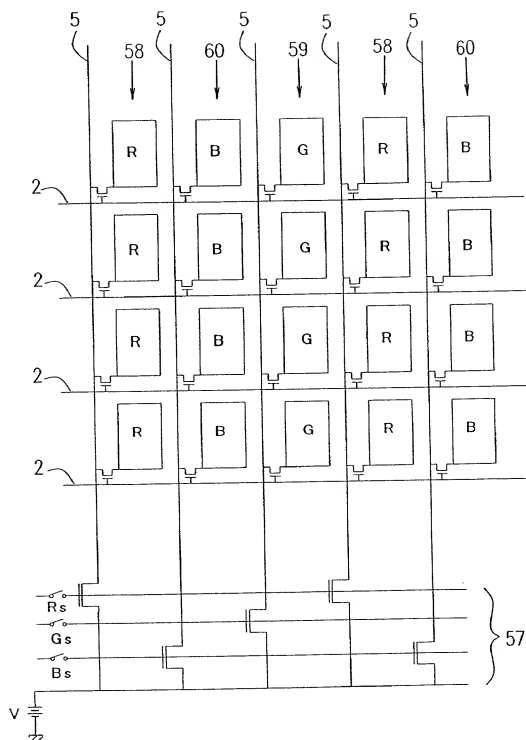


FIG. 12

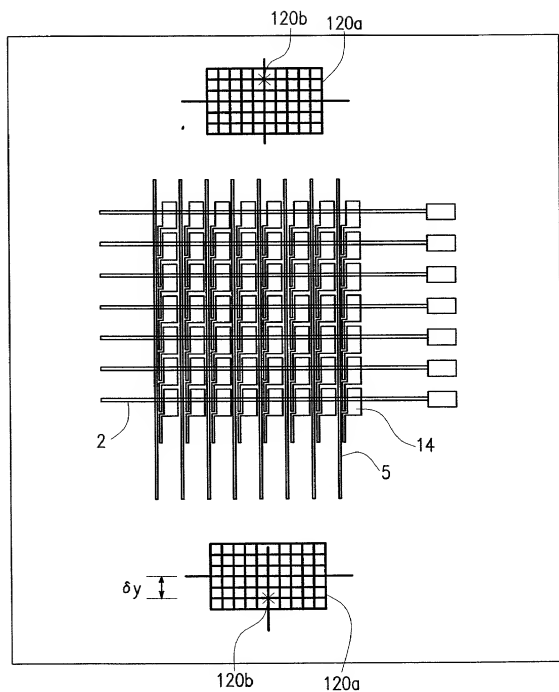


FIG. 13

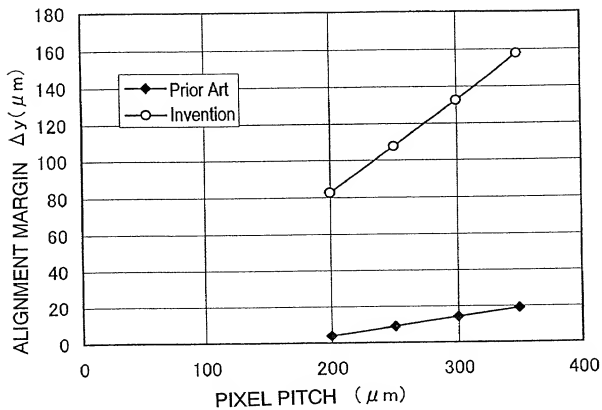


FIG. 14

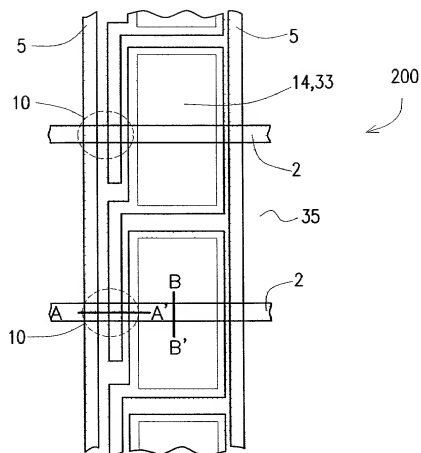


FIG. 15A

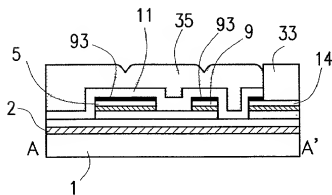


FIG. 15B

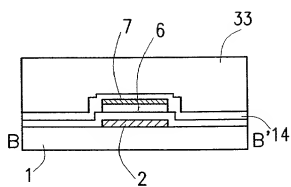


FIG. 16A

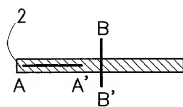
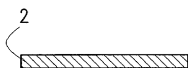


FIG. 16B

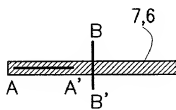
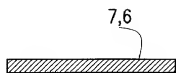


FIG. 16C

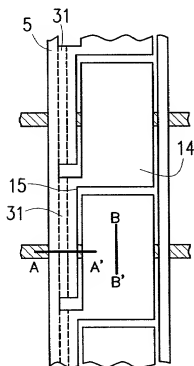


FIG. 16D

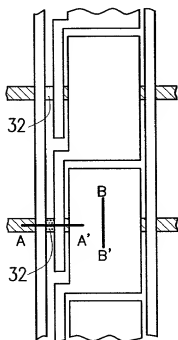


FIG. 16E

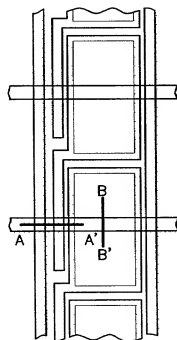


FIG. 18

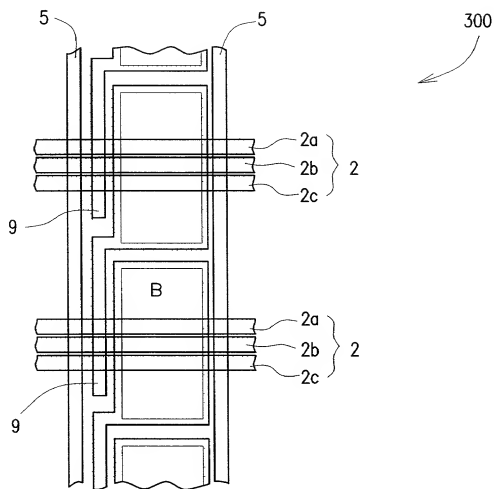


FIG. 19A

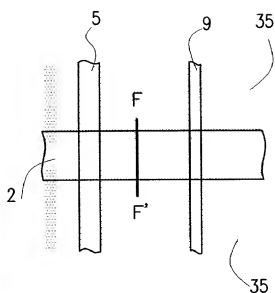


FIG. 19B

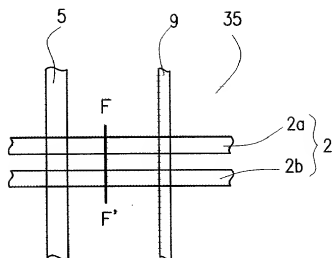


FIG. 19C

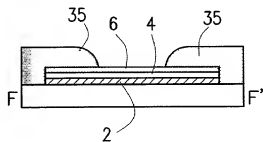


FIG. 19D

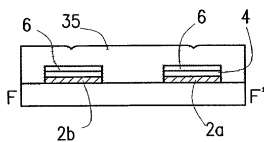


FIG. 20A



FIG. 20B

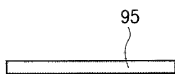


FIG. 20C

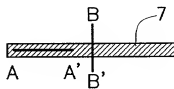
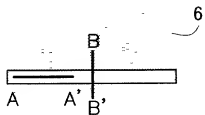
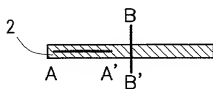


FIG. 20D

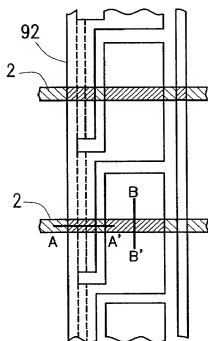


FIG. 20E

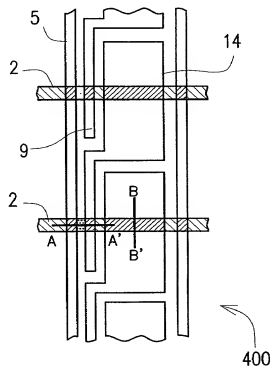
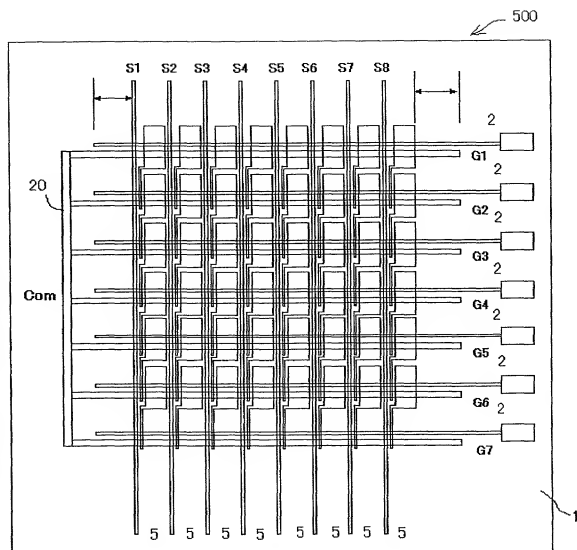


FIG. 22



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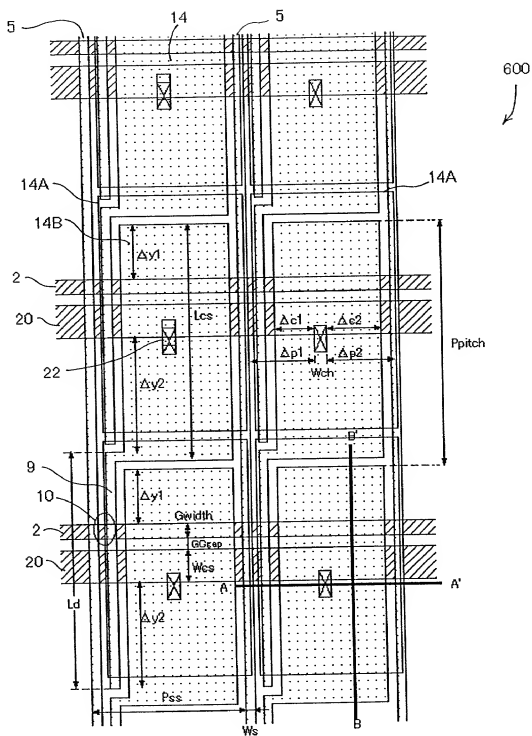
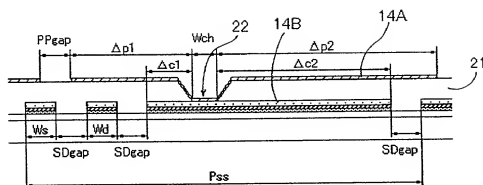


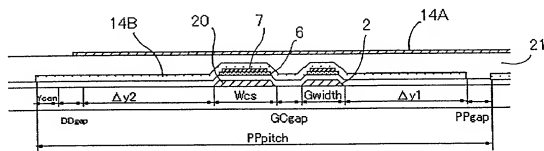
FIG. 27



$$\begin{aligned}\Delta C &= \Delta c1 + \Delta c2 \\ &= Pss - Ws - Wd - 3 \cdot SDgap - Wch\end{aligned}$$

$$\begin{aligned}\Delta P &= \Delta p1 + \Delta p2 \\ &= Pss - PPgap\end{aligned}$$

FIG. 28



$$\begin{aligned}\Delta Y &= \Delta y1 + \Delta y2 \\ &= Ppitch - Gwidth - PPgap - Wcs - GCgap - DDgap - Ycon\end{aligned}$$

FIG. 29

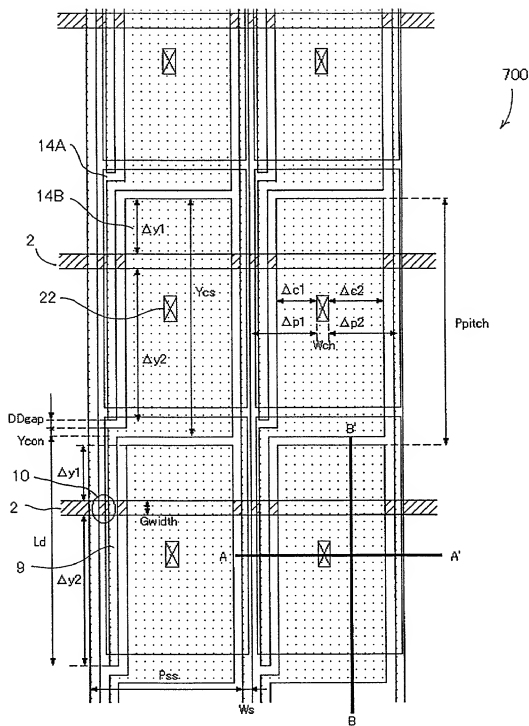
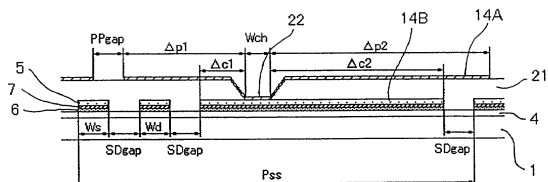


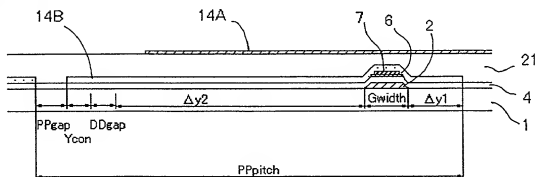
FIG.30



$$\begin{aligned}\Delta C &= \Delta c1 + \Delta c2 \\ &= Pss - Ws - Wd - 3 \cdot SDgap - Wch\end{aligned}$$

$$\begin{aligned}\Delta P &= \Delta p1 + \Delta p2 \\ &= Pss - PPgap\end{aligned}$$

FIG.31



$$\begin{aligned}\Delta Y &= \Delta y1 + \Delta y2 \\ &= Ppitch - Gwidth - PPgap - DGgap - Ycon\end{aligned}$$

032101 = 647660

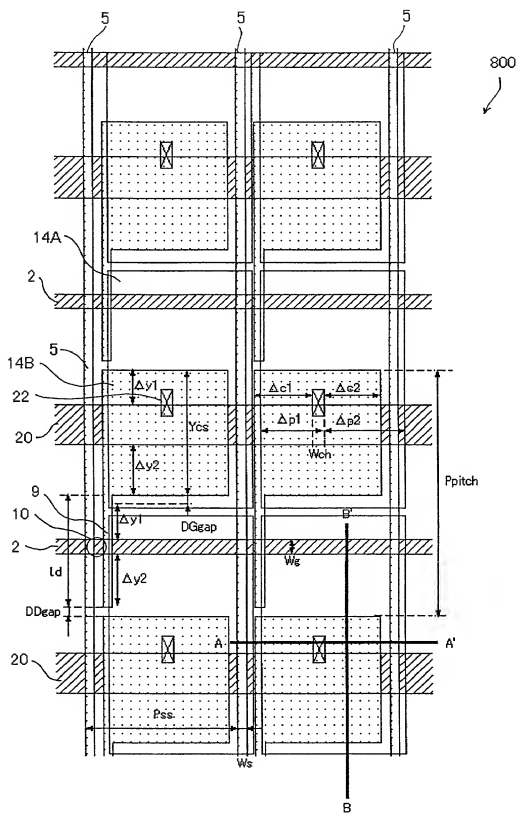
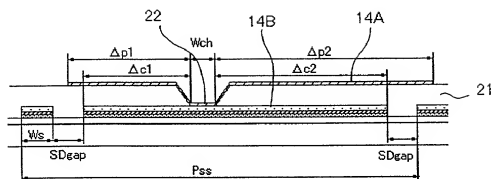


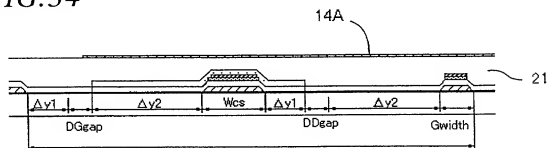
FIG.33



$$\begin{aligned}\Delta C &= \Delta c1 + \Delta c2 \\ &= Pss - Ws - 2 \cdot SDgap - Wch\end{aligned}$$

$$\begin{aligned}\Delta P &= \Delta p1 + \Delta p2 \\ &= Pss - PPgap\end{aligned}$$

FIG.34



$$\begin{aligned}\Delta Y &= \Delta y1 + \Delta y2 \\ &= (Ppitch - Gwidth - Wcs - DDgap - DGgap) / 2\end{aligned}$$

0123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

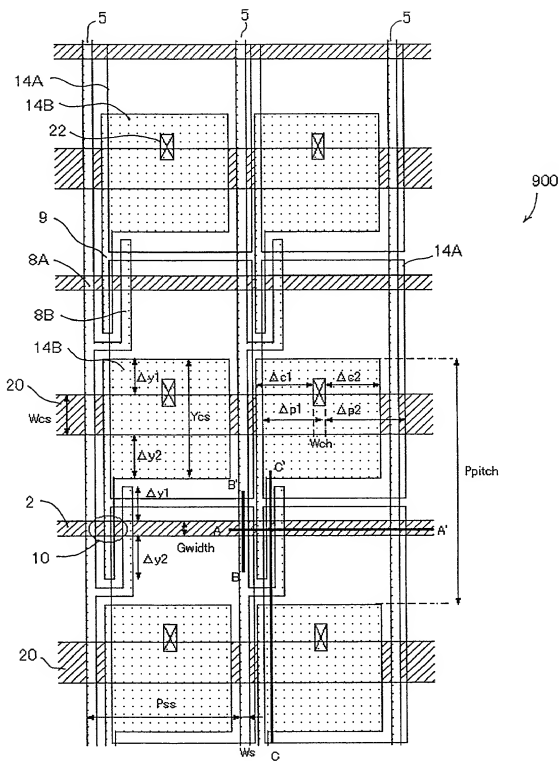


FIG.39

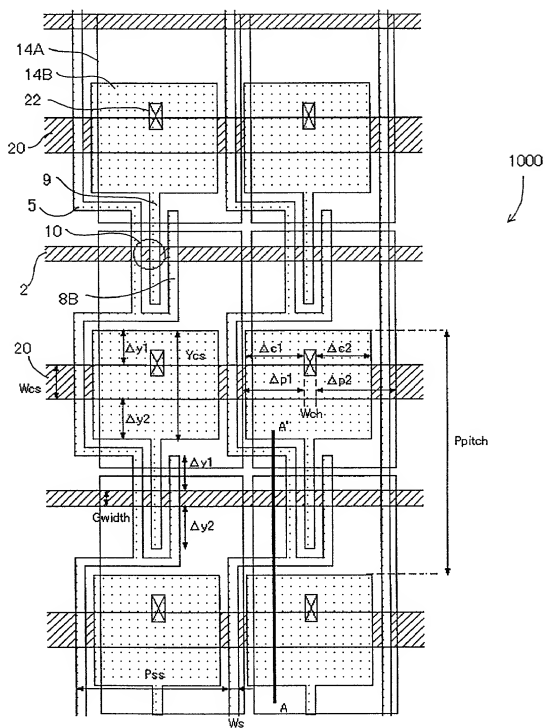


FIG. 41A

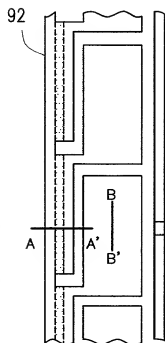


FIG. 41B

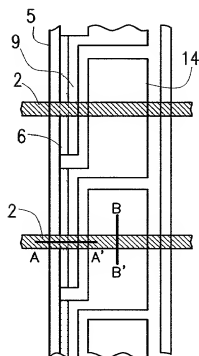
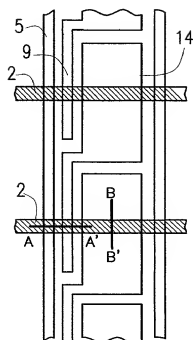


FIG. 41C



1100

FIG. 42A

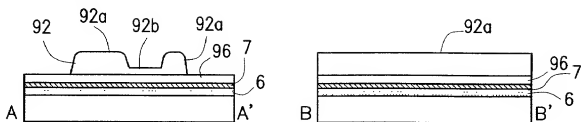


FIG. 42B

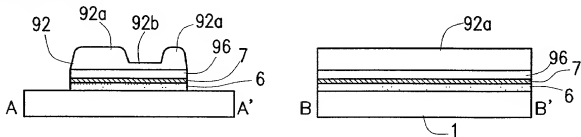


FIG. 42C



FIG. 42D

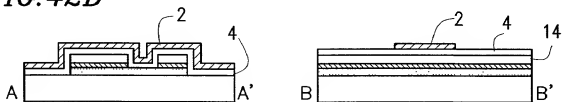


FIG. 42E

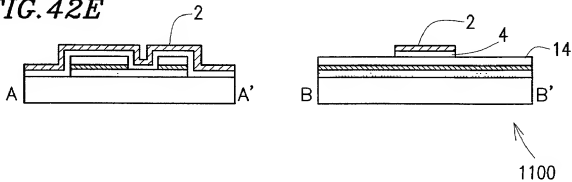


FIG. 43

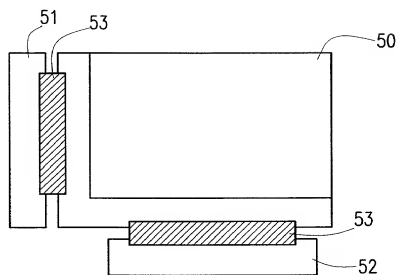


FIG. 44

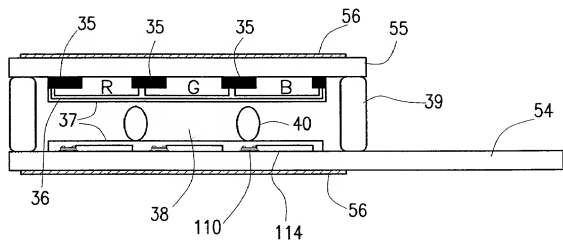


FIG. 45A

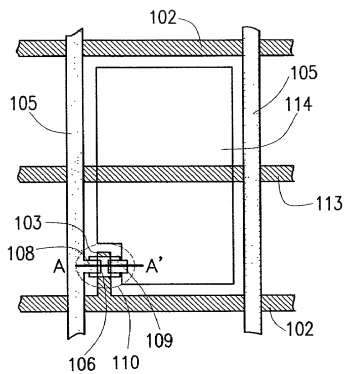


FIG. 45B

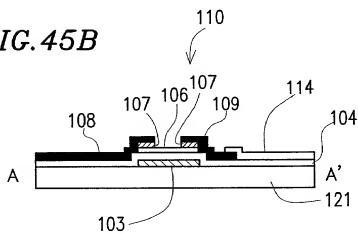


FIG. 46A

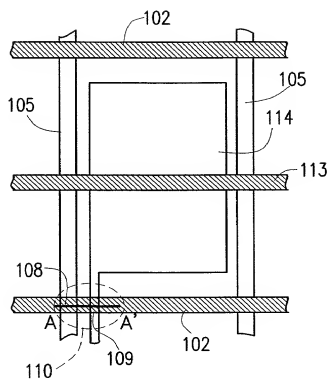


FIG. 46B

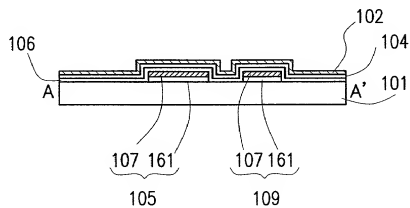


FIG. 47

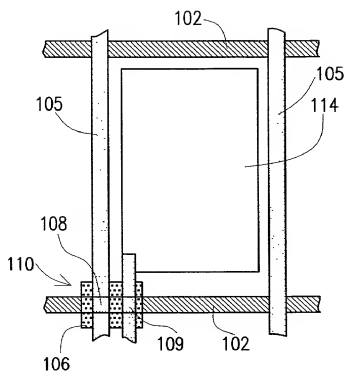


FIG. 48

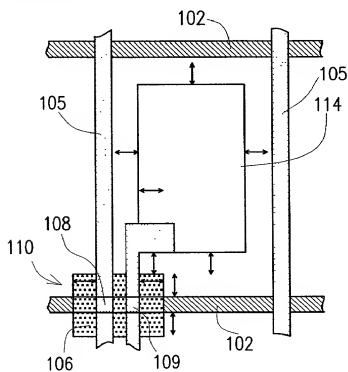


FIG. 49

